



Product Brief

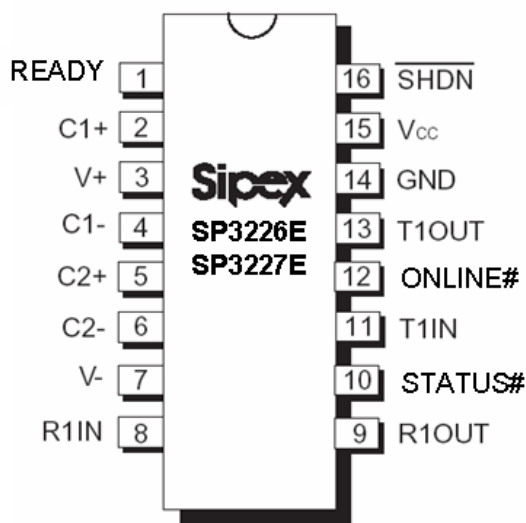
SP3227E 1Mbps 3.3V or 5V RS-232 Transceiver with Auto On-Line® Plus

Key Features

- 1-driver, 1-receiver RS-232 transceiver
- Pin compatible to SP3220EH/EU
- Upgrade from competitor '3221 devices
- Enhanced power savings compared to SP3220 or '3221 type devices
- 1Mbps high-speed serial data rate
- Auto On-Line® Plus automatically puts device into 1µA shutdown mode if Tx Input and Rx Input idle for 30 seconds
- Device re-awakes on bus activity
- No control inputs or software driver changes required
- Meets true EIA/TIA-232-F requirements from a +3.0V to +5.5V power supply
- Regulated Charge Pump for stable outputs regardless of V_{CC} variations
- Upgradeable from SP3226E to support higher speed serial
- ESD Specifications:
 - ±15KV Human Body Model
 - ±8KV IEC1000-4-2 Contact Discharge

Value Proposition

The AUTO ON-LINE® PLUS feature allows the device to automatically "wake-up" during a shutdown state upon detecting activity and to enter a low power shutdown if idle. This power saving feature functions without system intervention or modifications to software or drivers.



Typical Applications

High speed, low power RS232 transceiver:

- Ideal for consumer and general embedded applications
- Diagnostic upload ports
- Use in conjunction with low-voltage UARTs or microcontrollers
- Cross with MAX3227, ICL3227

1Mbps 3.3V or 5V RS-232 Transceiver with Auto On-Line® Plus

Selection Guide

Part Number	Temp.	Package	RoHS
SP3227ECA-L	0 to +70°C	16 pin SSOP	Y
SP3227ECY-L	0 to +70°C	16 pin TSSOP	Y
SP3227EEA-L	-40 to 85°C	16 pin SSOP	Y
SP3227EEY-L	-40 to 85°C	16 pin TSSOP	Y

Competitive Analysis

Vendor	Part Number	Cross-Type
Direct Equivalents		
Maxim	MAX3227	Drop-In
Intersil	ICL3227	Drop-In
Similar Devices (without Auto On-Line Plus)		
Sipex	SP3220EU	Pin-compatible
TI	SN65C3221	Pin-compatible

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

MaxLinear:

[SP3227EEY-L](#) [SP3227EEA-L/TR](#) [SP3227ECA-L/TR](#) [SP3227EEY-L/TR](#) [SP3227ECY-L](#) [SP3227ECA-L](#)
[SP3227ECY-L/TR](#) [SP3227EEA-L](#)